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(71) 出願人 (米国を除くすべての指定国について)

松下電器産業株式会社

(MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.)[JP/JP]

〒571-8501 大阪府門真市大字門真1006番地 Osaka, (JP)

(72) 発明者 ; および

(75) 発明者 / 出願人 (米国についてののみ)

佐々木美幸(SASAKI, Miyuki)[JP/JP]

〒570-0034 大阪府守口市西郷通1-24-11 Osaka, (JP)

後藤芳稔(GOTO, Yoshiho)[JP/JP]

〒536-0023 大阪府大阪市城東区東中浜5-1-3 Osaka, (JP)

福島能久(FUKUSHIMA, Yoshihisa)[JP/JP]

〒536-0008 大阪府大阪市城東区関目6-14-C-508 Osaka, (JP)

(74) 代理人

青山 葆, 外(AOYAMA, Tamotsu et al.)

〒540-0001 大阪府大阪市中央区城見1丁目3番7号

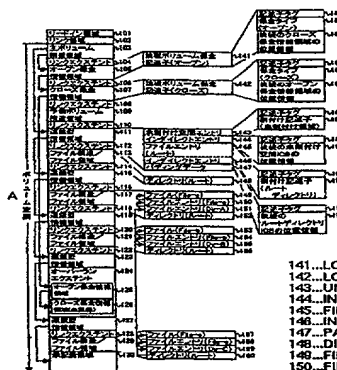
IMPビル 青山特許事務所 Osaka, (JP)

(54)Title: INFORMATION RECORDING MEDIUM, INFORMATION RECORDING/REPRODUCING METHOD, AND INFORMATION RECORDING/REPRODUCING DEVICE

(54)発明の名称 情報記録媒体と、情報記録再生方法および情報記録再生装置

(57) Abstract

In the case of a conventional data structure of a disk on which data is recorded by a CD-R multisession method, a dedicated command is needed to read the latest file structure recorded during the last session by reading chainedly the first address of the subsequent session recorded in the read-in area of a session, and it is necessary to close the session so as to read data by means of a reproduction-only device. According to the invention, a set of information on management of unrecorded areas and a set of information on management of file structure/file information are recorded as chain-type information (111, 115, ...) and are read chainedly in a volume space so as to acquire the latest management information. Open maintenance information (105, 125) is recorded at the start of recording and close maintenance information (107, 126) is recorded at the end of the recording. The information is read chainedly, and thus information on volume is acquired.



A...VOLUME SPACE
101...READ-IN AREA
102...LINK AREA
103...MAIN VOLUME STRUCTURE AREA
104...LINK EXTENT
105...OPEN MAINTENANCE INFORMATION AREA
106...LINK EXTENT
107...CLOSE MAINTENANCE INFORMATION AREA
108...LINK EXTENT
109...PRELIMINARY VOLUME STRUCTURE AREA
110...LINK EXTENT
111...CHAIN TYPE INFORMATION AREA
112...LINK EXTENT
113...FILE STRUCTURE/FILE AREA
114...LINK EXTENT
115...CHAIN TYPE INFORMATION AREA
116...LINK EXTENT
117...FILE STRUCTURE/FILE AREA
118...LINK EXTENT
119...CHAIN TYPE INFORMATION AREA
120...LINK EXTENT
121...FILE STRUCTURE/FILE AREA
122...LINK EXTENT
123...CHAIN TYPE INFORMATION AREA
124...OVER-RUN EXTENT
125...OPEN MAINTENANCE INFORMATION AREA
126...CLOSE MAINTENANCE INFORMATION AREA (UNRECORDED)
127...CHAIN TYPE INFORMATION AREA
128...LINK EXTENT
129...FILE STRUCTURE/FILE AREA
130...UNRECORDED AREA
131...ALLOCATION DESCRIPTOR (ROOT DIRECTORY)
132...DESCRIPTOR TAG
133...POSITION INFORMATION ON SUBSEQUENT ROOT
134...LINK EXTENT
135...FILE STRUCTURE/FILE AREA
136...LINK EXTENT
137...FILE STRUCTURE/FILE AREA
138...LINK EXTENT
139...FILE STRUCTURE/FILE AREA
140...LINK EXTENT
141...LOGICAL VOLUME MAINTENANCE DESCRIPTOR (OPEN)
142...LOGICAL VOLUME MAINTENANCE DESCRIPTOR (CLOSE)
143...UN-ALLOCATED SPACE ENTRY
144...INDIRECT ENTRY
145...FILE ENTRY (ROOT)
146...INDIRECT ENTRY
147...PADDING DATA
148...DIRECTORY (ROOT)
149...FILE (file-a)
150...FILE ENTRY (file-a)
151...FILE ENTRY (DIR-A)
152...DIRECTORY (ROOT)
153...FILE (file-b)
154...FILE ENTRY (file-b)
155...FILE ENTRY (DIR-B)
156...DIRECTORY (ROOT)
157...FILE (file-c)
158...FILE ENTRY (file-c)
159...FILE ENTRY (DIR-C)
160...DIRECTORY (ROOT)
161...DESCRIPTOR TAG
162...MAINTENANCE TYPE (OPEN)
163...POSITION INFORMATION ON SUBSEQUENT CLOSE
164...DESCRIPTOR TAG
165...MAINTENANCE TYPE (CLOSE)
166...POSITION INFORMATION ON SUBSEQUENT OPEN
167...DESCRIPTOR TAG
168...ALLOCATION DESCRIPTOR (UN-ALLOCATED AREA)
169...DESCRIPTOR TAG
170...POSITION INFORMATION ON SUBSEQUENT UN-
171...DESCRIPTOR TAG